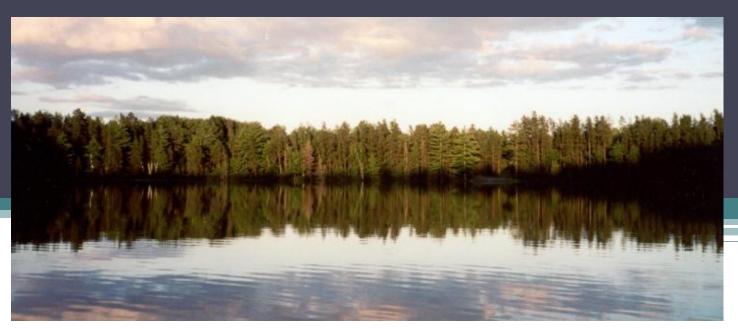
Lakes and Wetlands and the Economy of Vilas County







Outline

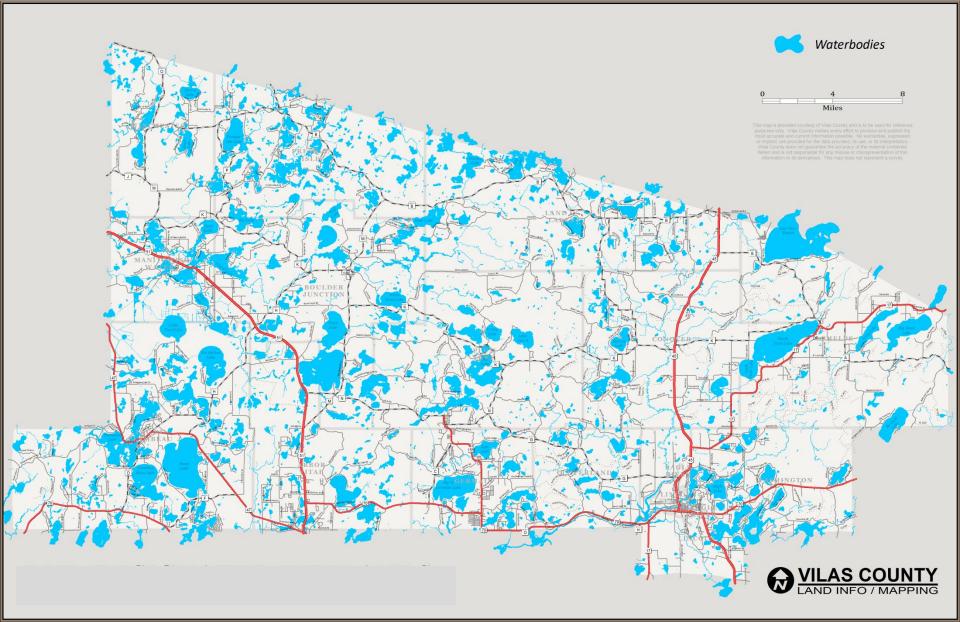
- The aquatic habitats of Vilas County
- The economic value of those aquatic habitats
- How the Vilas County Land & Water Conservation fits in to the picture



Water Facts – Vilas County Lakes and Streams

- 1320+ Lakes
- Headwaters of 4 Big Rivers including the Wisconsin and Chippewa Rivers
- Surface waters (lakes & streams) = 102,276 acres, or 15.6% of land area
- The Northern Highlands Ecological Landscape has one of the highest concentrations of naturally formed lakes <u>IN THE WORLD</u>

The surface waters of Vilas County



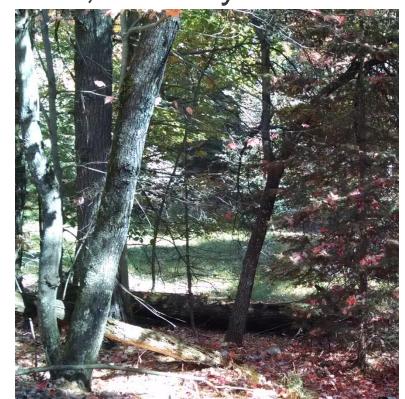
Water Facts – Vilas County Wetlands

 Wetlands (> 2 acres) = 121,258 acres, or 18.5% of land area

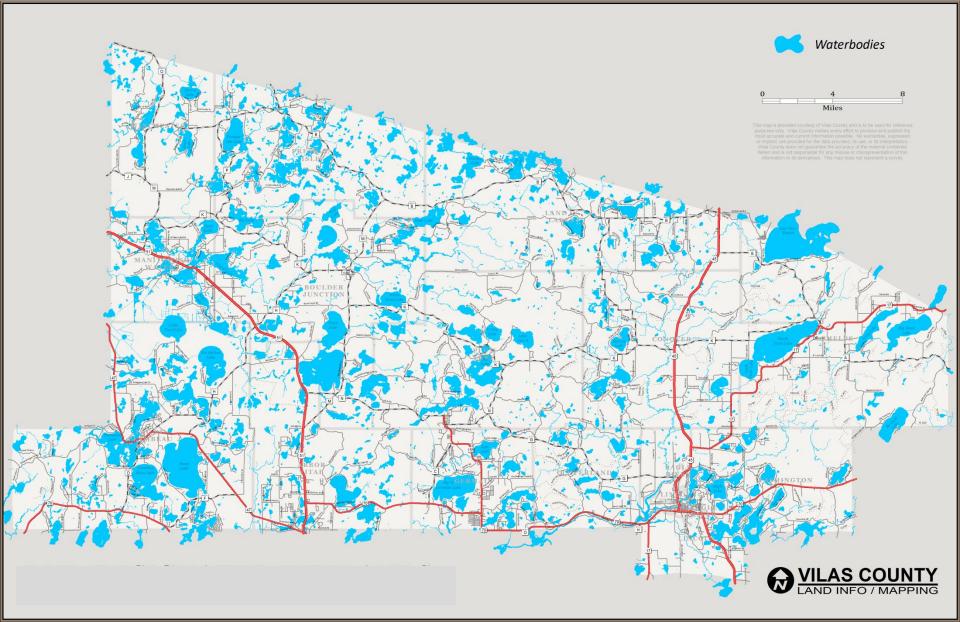
Wetlands (< 2 acres) = ? acres, but very

important!

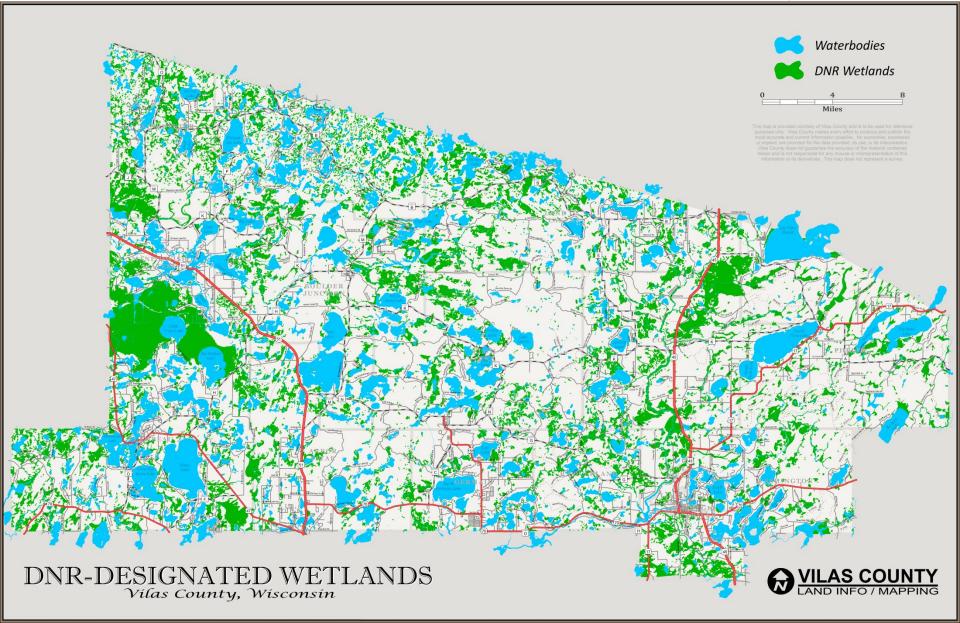




The surface waters of Vilas County



The surface waters + wetlands of Vilas County



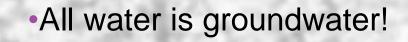
Water Facts - Vilas County

15.6% (surface waters) + 18.5% (mapped wetlands)

= 34% of Vilas County is WET

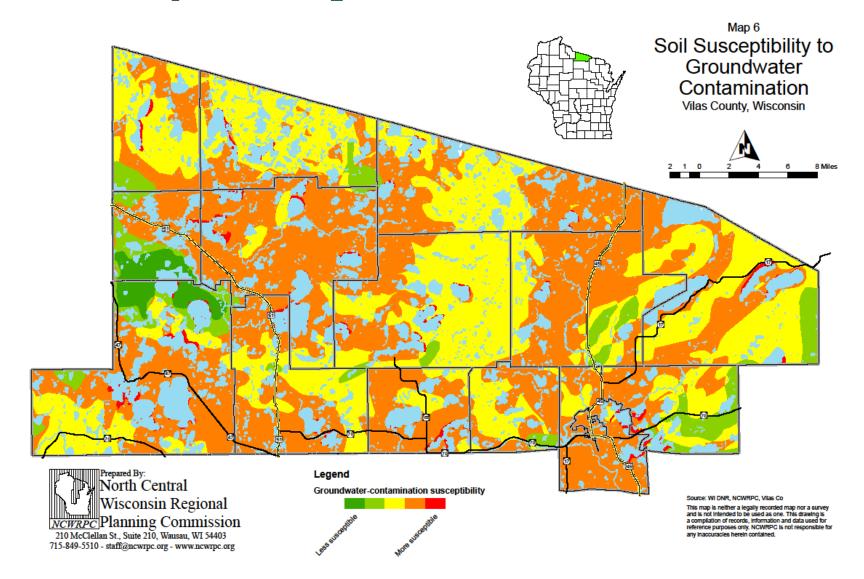


Water Facts – Vilas County Groundwater

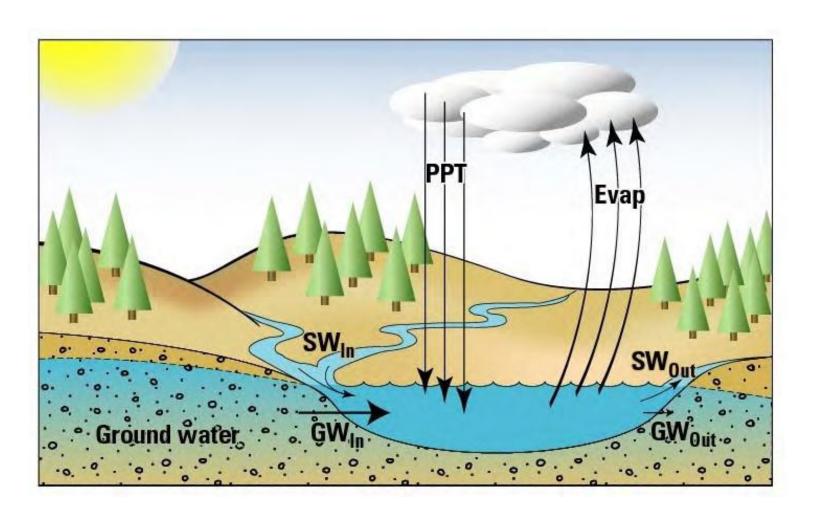


- •Groundwater moves in and out of surface water all the time.
- Quantity and quality of ground water affects quantity and quality of surface water.
- •Groundwater is the source of drinking water for everyone in Vilas County

Susceptibility to Contamination



Rain & Snow are the source of water in Vilas County



How it ties together

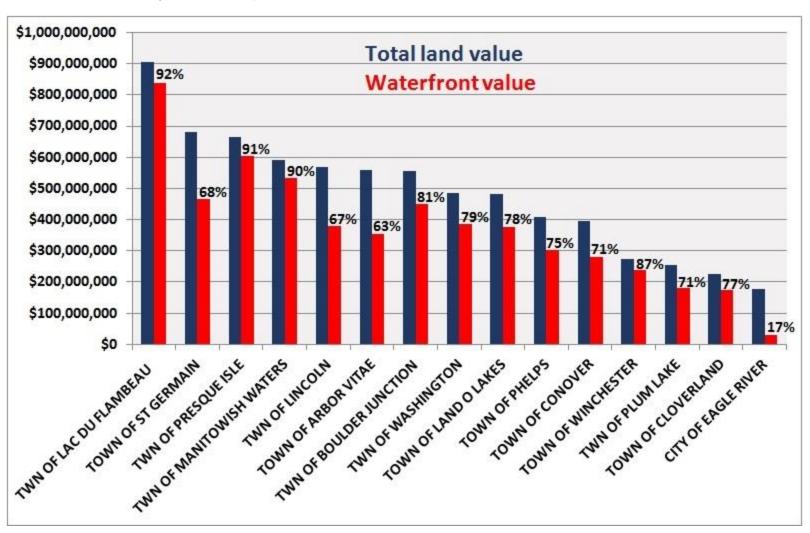
- All water is ground water = all the water is tied together
- Wetlands are the kidneys of the water system.
 They percolate water into the ground, as well as filter out pollutants
- People desire clean water to swim and fish in, play and live on.

Sources of Economic Value

- Property Values
- Tourism Spending
- Recreation/Use Values



Assessed Value of waterfront property in Vilas County as a percent of each town total in 2013.



Assessed Value of waterfront property in Vilas County as a percent of all properties in 2013

	On Water Value	Total Value	%
VILAS COUNTY WHOLE	\$5,595,742,600	\$7,228,815,700	77.41%



Visitor spending based on population

County	2013 (Millions)	Population	Per capita direct spending
Sauk County	\$888.5	58,261	\$15,250.34
Door County	\$299.0	28,200	\$10,602.84
Vilas County	\$203.1	22,379	\$9,075.47
Adams County	185.7	20,875	\$8,895.81
Oneida County	\$197.0	36,779	\$5,356.32
Walworth County	\$477.8	101,007	\$4,730.37

Visitor Spending Regionally

County	2013 (Millions)	Population	Per capita direct spending
Forest County	\$11.8	9,304	\$1,268.27
Iron County	\$18.9	5,916	\$3,194.73
Oneida County	\$197.0	36,779	\$5,356.32
Vilas County	\$203.1	22,379	\$9,075.47



Visitor Spending – Vilas County

Vilas County – has the 3rd highest tourism intensity in Wisconsin. (Jobs based on tourism - 2011).

Water Facts – Vilas County

Seasonal Homes

The 2010 US Census estimates 61.5% of homes in Vilas County are classified as seasonal – a higher percentage than any other county in Wisconsin.

 How much do seasonal homeowners spend locally?

Estimated Spending by Northwoods Seasonal Home **Owners**

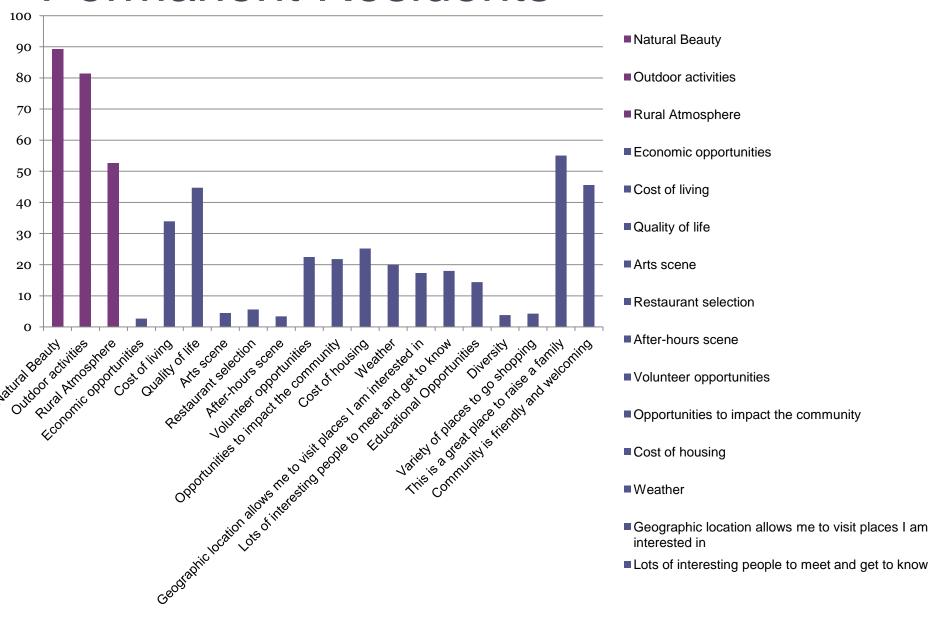
Category	Daily Expenses
Construction	\$12.48
Fishing/Boating	\$4.57
Medical Care	\$4.24
Dining	\$8.33
Groceries/Liquor	\$13.25
Gas	\$6.15
Shopping	\$5.20
License	\$1.02
Other (Cleaning, Maintenance, Communication)	\$16.06
Total	\$74.18

Source: University of Wisconsin-Whitewater, Economic Impact Study, "Broadband and Vacation Properties", Wisconsin" August 2014

Estimated Spending by Northwoods Seasonal Home Owners

- 15,458 Seasonal Homes in Vilas (2010 Census) that spend an estimated \$74.18 per day when occupied.
- $15,458 \times $74.18 = $1,146,674 \text{ per day}$
- If Seasonal Home Owners spend 60 days a year here; \$1,146,674 x 60 = \$68,800,440 to Vilas County Economy

Permanent Residents



Conclusion...

- The water is a primary reason that:
 - Tourists visit here
 - Families purchase second homes here
 - Locals stay here
 - People retire here
 - Businesses locate here

Healthy Lakes = a Healthy Economy!

Healthy Lakes are Critical to the Northwoods Economy

- Lakefront property owners and lake users contribute significantly to the local economy.
- The economy of the Northwoods is dependent on people wanting to live and recreate in the most <u>lake</u> <u>rich area in the United States!</u>
- If lake and stream water quality deteriorates, waterfront property values will also erode, resulting in the tax base shifting to off water properties.

Threats to Vilas County Waters





In the past 150 years, human activities have increasingly strained the ability of Vilas County lakes and streams to recover from stressors and resulted in diminished water quality:

- •The original forest cutover
- •Wide-scale slash burning
- Dam building and unnatural water flows
- Development/alteration of shorelines
- Road building
- Invasive Species

Vilas County Services Available

Aquatic Habitat Issues

Water Quality

Aquatic Invasive Species

Lake Management

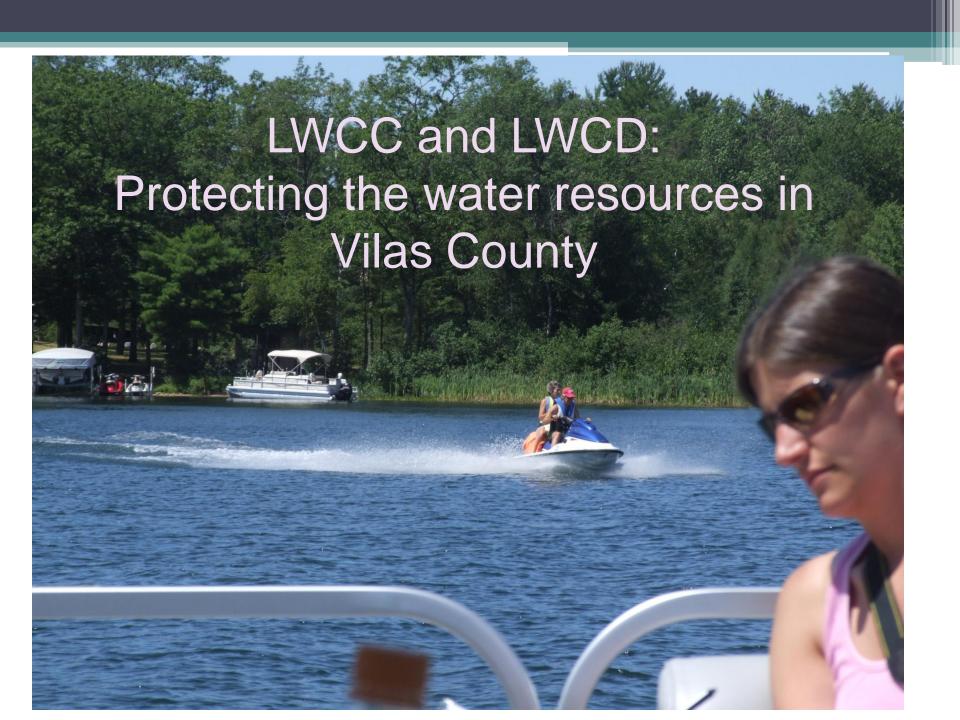
 Lake Associations and Districts (>100)

Role of Vilas County Land & Water

- Water Quality improvement and protection
- AIS education, monitoring and management
- Lake management development and funding
- Lake Association formation and effective action

Land & Water Resource Management Plan Goals: 2015-2019

- ➤ Goal 1: Increase the publics' level of natural resource knowledge and stewardship
 - (Resource Concerns Information &Education for all county natural resources & programs)
- Goal 2: Protect aquatic and terrestrial environments from nonpoint source pollutants
 - (Resource Concerns Point/Non-point Source Pollution, Soil Erosion, Nutrient Loading, and Shoreline Development)
- ➤ Goal 3: Protect aquatic, terrestrial, and wetland ecosystems from invasive species
 - (Resource Concern Aquatic and Terrestrial Invasive Species)
- ➢ Goal 4: Organize sites of concern within watersheds, wetlands, lakes, and forests
 - (Resource Concern Geographic Prioritization Project)



Assessed Value of waterfront property in Vilas County as a percent of each township total in 2013.

Township	On Water Value	Total Value	%
TWN OF LAC DU FLAMBEAU	\$837,404,400	\$906,211,600	92.41%
TWN OF PRESQUE ISLE	\$604,272,300	\$664,408,100	90.95%
TWN OF MANITOWISH WATERS	\$533,003,400	\$592,339,300	89.98%
TOWN OF WINCHESTER	\$237,039,000	\$272,004,600	87.15%
TWN OF BOULDER JUNCTION	\$451,411,200	\$555,879,000	81.21%
TWN OF WASHINGTON	\$385,044,800	\$484,828,100	79.42%
TOWN OF LAND O LAKES	\$376,102,300	\$481,601,300	78.09%
TOWN OF CLOVERLAND	\$174,259,600	\$226,315,700	77.00%
TOWN OF PHELPS	\$304,036,400	\$407,069,500	74.69%
TOWN OF CONOVER	\$281,411,500	\$394,814,400	71.28%
TWN OF PLUM LAKE	\$182,213,700	\$255,916,900	71.20%
TOWN OF ST GERMAIN	\$464,398,200	\$682,293,100	68.06%
TWN OF LINCOLN	\$380,571,500	\$568,367,300	66.96%
TOWN OF ARBOR VITAE	\$354,810,300	\$559,314,500	63.44%
CITY OF EAGLE RIVER	\$29,764,000	\$177,452,300	16.77%